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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,462	04/11/2005	Henrik Rosendal Andersen	6495-0075WOUS	9276
35301 7590 07/20/2007 MCCORMICK, PAULDING & HUBER LLP CITY PLACE II			EXAMINER	
			IP, SHIK LUEN PAUL	
185 ASYLUM STREET HARTFORD, CT 06103			ART UNIT	PAPER NUMBER
,			2837	
			MAIL DATE	DELIVERY MODE
			07/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)
Office Action Summary		10/511,462	ANDERSEN, HENRIK ROSENDAL
		Examiner	Art Unit
		/Paul lp/	2837
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet	with the correspondence address
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period or re reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUI 36(a). In no event, however, may will apply and will expire SIX (6) M t, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status			
2a)□	Responsive to communication(s) filed on This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under Expression and the practice of	action is non-final. nce except for formal ma	
Dispositi	on of Claims		
5)⊠ 6)⊠ 7)□ 8)□ Applicati 9)□ 10)⊠	Claim(s) 19-36 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) 19-25 and 36 is/are allowed. Claim(s) 26-35 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on 14 October 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The oath or declaratio	wn from consideration. r election requirement. r. : a) \[\] accepted or b) \[\] drawing(s) be held in abeytion is required if the drawing.	rance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).
Priority L	ınder 35 U.S.C. § 119		
12)⊠ a) [Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in rity documents have bee u (PCT Rule 17.2(a)).	Application No en received in this National Stage
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date 10/14/2004	Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application

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DETAILED ACTION

Drawings

1. New corrected drawings in compliance with 37 CFR 1.121(d) are required

in this application because:

The informal drawings are not of sufficient quality to permit examination.

Accordingly, replacement drawing sheets in compliance with 37 CFR 1.121(d) are

required in reply to this Office action. The replacement sheet(s) should be labeled

"Replacement Sheet" in the page header (as per 37 CFR 1:84(c)) so as not to obstruct

any portion of the drawing figures. If the changes are not accepted by the examiner, the

applicant will be notified and informed of any required corrective action in the next Office

action.

. Applicant is advised to employ the services of a competent patent draftsperson

outside the Office, as the U.S. Patent and Trademark Office no longer prepares new

drawings. The corrected drawings are required in reply to the Office action to avoid

abandonment of the application. The requirement for corrected drawings will not be held

in abeyance.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which

papers have been placed of record in the file.

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Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 10/14/2004 complies with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

4. Claims 19-25 and 36 are allowed. The references of the record fail to teach or suggest the oversampling frequency, digitally filtering the samples to maintain symmetry of the samples with respect to a centerline of the switching period, and the average value of the samples as recited in the steps of the method claims.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

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Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 26-34 are rejected under 35 U.S.C. 102(e) as being anticipated by Rollman (2003/0006749).

With respect to claims 26-29 and 34, Rollman shows in figure 1 a motor 112, current transducers 110 and 116, sample and hold 112 and 118, A/D converter 114 and 124, a power card 102 and a control card 103.

With respect to claims 30-33, Rollman discloses at paragraphs [0024] – [0026] that variety current sensors may be employed as the current sensors 110 and 116 [0025]. Rollman discloses at paragraph [0024] that the waveforms 202, 204, and 206 illustrate a typical three-phase center-aligned PWM waveform. Rollman discloses at paragraph [0026] that the voltage division of resistors R6 and R7 adds an offset of Vref/2 or 1.5 volts at the output of the op-amp 306. It is inherent that the magnetic current transducer is set to be at least two times larger than an internal voltage reference of the transducer in order to provide the Vref/2 or 1.5 volts as recited in the paragraph.

With respect to claim 35, Rollman discloses at paragraph [0022] the sample and hold modules and the A/D converters. It is inherent that the sample and hold and the A/D converters provide the same function as recited in the claim.

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Citation of Pertinent References

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references shown on the form 892 are sample and hold motor control circuits for controlling the motor driving waveform.

Communication Information

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Paul lp/ whose telephone number is (571)-272-1941.

The examiner can normally be reached on Monday to Friday from 6:30 am to 3:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln Donovan, can be reached on(571)-272-1988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Internet correspondence **MUST** be provided with a prior written authorization by applicant in the application file record giving the Office authorization to communicate with applicant vie e-mail. Without a written authorization by applicant in place, the USPTO will not respond via Internet e-mail to any Internet correspondence which contains information subject to the confidentially requirement as set forth in 35 U.S.C. 122.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Paul lp/

Primary Examiner Art Unit 2837

7/17/2007